

Amendments to the Specification

On page 12, after line 6, insert the following new paragraph:

Figure 21 illustrates a cross-section view of a heat exchanger in accordance with the present invention.

On page 22, replace the paragraph beginning on line 15 and ending on line 24 with the following amended paragraph:

It is apparent to one skilled in the art that the microchannel walls 110 are alternatively configured in any other appropriate configuration depending on the factors discussed above. For instance, the interface layer 102 alternatively has grooves in between sections of microchannel walls 110, as shown in Figure 8C. In addition, the microchannel walls 110 have dimensions which minimize the pressure drop or differential within the interface layer 102. It is also apparent that any other features, besides microchannel walls 110 are also contemplated, including, but not limited to roughed surfaces and a micro-porous structure, such as sintered metal and silicon foam. Figure 21 shows the heat exchanger of Figure 3B with a micro-porous structure 110' replacing the microchannel walls 110, wherein the micro-porous structure can be sintered metal or silicon foam. However, for exemplary purposes, the parallel microchannel walls 110 shown in Figure 3B is used to describe the interface layer 102 in the present invention. Alternatively, the microchannel walls 110 have non-parallel configurations.